

### **Abstract**

A microwell array chip that has multiple microwells and is employed to contain a single lymphocyte specimen in each microwell and detect antigen-specific lymphocytes in single units; wherein the microwell array chip is of a shape and of dimensions where only one lymphocyte is contained in each microwell. A method of detecting antigen-specific lymphocytes comprising the steps of adding antigen to each microwell in the above microwell array chip, stimulating the lymphocyte specimen, and detecting lymphocyte specimens reacting with the antigen.